

Listing of the Claims

1-5 (Canceled)

2
6. (Currently Amended) The method of claim 35 1, wherein detecting modification comprises the additional step of quantifying the amount present of the ~~target member~~ inactive MEK or inactive MAPK proteins of the Raf/MEK/MAPK biochemical pathway based on the modification thereof.

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7. (Currently Amended) The method of claim 35 1, wherein detecting modification comprises the additional step of qualitatively or quantitatively determining the level of activity of the ~~target member~~ inactive MEK or inactive MAPK proteins of the Raf/MEK/MAPK biochemical pathway based on the modification thereof.

8-26. (Canceled)

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27. (Currently Amended) The method of claim 35 1, wherein detecting the modification comprises the additional step of identifying the affinity or avidity of the ~~target member~~ inactive MEK or inactive MAPK proteins of the Raf/MEK/MAPK biochemical pathway based on the modification thereof.

28-32 (Canceled).

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33. (Currently Amended) The method of claim 35 1, further comprising removing the polymer gel contact mask from the substrate before exposing the inactive MEK proteins and inactive MAPK proteins ~~tyrosine kinases~~ to the solution of active Raf

proteins, active MEK proteins, ATP, and potential inhibitors of at least one of the active Raf proteins or the active MEK proteins members of the src family of kinases and ATP.

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34. (Currently Amended) The method of claim 1, wherein immobilizing the inactive MEK proteins and inactive MAPK proteins on areas of the substrate comprises forming a self-assembled monolayer is formed on the substrate and binding the inactive MEK proteins and inactive MAPK proteins the tyrosine kinases are immobilized on the substrate by being bound to the self-assembled monolayer.

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35. (Previously Presented) A method for detecting modification of MEK proteins or MAPK proteins of a Raf/MEK/MAPK pathway, comprising the steps of:

- a) placing a polymer gel contact mask having holes on a substrate, the holes together with the portions of the substrate which overlie the holes forming cavities;
- b) immobilizing inactive MEK proteins and inactive MAPK proteins on areas of the substrate underlying the holes of the polymer gel contact mask that have the size and orientation of wells of a 96 well, 384 well, 1536 well, or 3456 well microwell plate;
- c) exposing the inactive MEK proteins and inactive MAPK proteins to a solution of active Raf proteins, active MEK proteins, ATP, and potential inhibitors of at least one of the active Raf proteins or the active MEK proteins;
- d) allowing binding of the active Raf proteins and the active MEK proteins to the inactive MEK proteins and the inactive MAPK proteins; and
- e) detecting modification of the inactive MEK proteins or the inactive MAPK proteins of the Raf/MEK/MAPK pathway.